Memorandum

To: David Michelson, Associate Professor, UBC

From: Anupam Abhayakumar, Student

Date: January 25th, 2014

Subject: Weekly Review

Dear Mr Michelson,

This week we began our design project related to building a Spectrum Analyzer. As we are still in the initial stages, we have spent most of the time learning the fundamentals behind the functioning of each component. With the help of our TA’s we were successfully able to use the in-lab Spectrum analyzer and its different functions. We did not encounter any problems while carrying out this process.

The following session focused on us becoming more familiar with the Voltage Controlled Oscillator (VCO), the RF amplifier. Following this, then we combined our VCO with our Band-pass filter to observe the output on the analyzer. We encountered a few problems pertaining to our VCO in the initial stages, as there was only an internal signal visible from the spectrum analyzer. Following this, our team realized that the power supply was not internally connected and the wires had to be connected manually to link the grounds.

For the group structure for this lab, we switched between pairs to do different activities so that everyone has gained experience relating to the building of these components. We are all ready to continue to next part of the design lab.

With Regards,

Anupam Abhayakumar